

AMENDMENTS TO THE CLAIMS

193. (previously presented) A multiple axes controller, comprising:

- at least twelve sensors sensing inputs to the controller from a human user, the twelve sensors providing outputs at least in part controlling three-dimensional imagery shown by an electronic display;
- a tactile feedback motor mounted to a hand held housing of the controller, said feedback motor providing vibration to the human user to simulate a physical occurrence related to the imagery;
- a single first button positioned on the controller is depressible by a finger of the human user to actuate
 - a first sensor of said sensors and
 - a second sensor of said sensors;
 - said first sensor is a proportional sensor,
 - said second sensor is a switch capable of indicating an On state when actuated;
- a single second button positioned on the controller is depressible by a finger of the human user to actuate
 - a third sensor of said sensors and
 - a fourth sensor of said sensors;
 - said third sensor is a proportional sensor,
 - said fourth sensor is a switch capable of indicating an On state when

actuated;

a two-axes member supported on said controller, said two-axes member positioned to activate

four sensors, the four sensors comprising:

a fifth sensor and a sixth sensor for sensing movement of said member about the first axis;

a seventh sensor and an eighth sensor for sensing movement of said member about the second axis.

194. (previously presented) A multiple axes controller according to claim 193 wherein actuation of at least one of the first and second sensors activates a turn-on tactile feedback.

204. (currently amended) [A] An image machine, comprising:
a controller converting human inputs into electrical outputs controlling at least three axes of three-dimensional imagery shown by a display;

said controller structured with at least twelve sensors sensing human inputs and outputting electrical outputs;

active tactile feedback structure providing vibration to be felt by a human inputting into said controller;

an input stick element structured with at least two sensors of said at least twelve sensors, human input causing actuation of said stick element controls at least in part two axes of the imagery;

[a plurality of said sensors each including spacing isolating the plurality of

sensors against being activated by vibration from said active tactile feedback;]

a button positioned on the controller is depressible by a finger of the human user, said button positioned to actuate

a proportional sensor, whereby human input variably depresses said button variably controlling at least a part of the imagery.

205. (currently amended) [A controller] An image machine according to claim 204 wherein said controller further comprises a second element structured with at least two sensors of said at least twelve sensors, whereby human input causing actuation of said second element controls at least in part two axes of the imagery.

[wherein said button is also positioned to actuate

an On/Off indicating sensor of said sensors, wherein full depression of said button by the human user actuates the On/Off indicating sensor and the proportional sensor.]

221. (currently amended) A three-dimensional imagery controller, comprising:

at least twelve sensors sensing inputs by a human and outputting electrical outputs, the sensor outputs controlling at least in part the three dimensional imagery;

active tactile feedback structure providing vibration to be felt by a hand of the human holding said controller;

a pivotaly mounted first button positioned on the controller is depressible by a finger of the human, said first button positioned to variably actuate

a first proportional sensor of the at least twelve sensors, the first proportional sensor outputting a first proportional output, the first proportional output variably controlling the three-dimensional imagery;

a pivotaly mounted second button positioned on the controller is depressible by a finger of the human, said second button positioned to variably actuate

a second proportional sensor of the at least twelve sensors, the second proportional sensor outputting a second proportional output, the second proportional output variably controlling the three-dimensional imagery;

a rotating stick member, said rotating stick member positioned to actuate a plurality of the twelve sensors.

222. (currently amended) An image controller, comprising:

at least twelve sensors changing physical inputs into electrical outputs, the electrical outputs controlling at least in part three axes of three-dimensional imagery shown by an electronic display;

a first plurality of said twelve sensors activated by

a three-axes member of said controller;

a second plurality of said twelve sensors activated by

a rotating member of said controller;

a tactile feedback motor; said tactile feedback motor moves

a weight providing vibration to a human user of said controller, the

vibration simulates

a contact in the three-dimensional imagery, said tactile feedback motor with weight is contained within

a [handle] portion of said controller held by a hand when operating the controller.

223. (previously presented) An image controller according to claim 222, further comprising:

at least some of said twelve sensors are pressure-sensors, whereby variable pressure applied to one of the variable pressure sensors variably controls the three-dimensional imagery.

Claims 224 – 230 (cancelled)